

**APPLICATION FOR UNITED STATES PLANT PATENT**

**for**

**CHRYSANTHEMUM PLANT NAMED 'STARLET WHITE'**

**by**

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This application claims the benefit of a U.S. Provisional Application No. 60/421,386, filed October 25, 2002.

#### LATIN NAME OF THE GENUS AND SPECIES

Botanical classification: *Chrysanthemum morifolium*.

#### VARIETY DENOMINATION

The new Chrysanthemum variety denomination is 'Starlet White.'

#### BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of Chrysanthemum botanically known as *Chrysanthemum morifolium*, and referred to by the cultivar name 'Starlet White.'

'Starlet White,' identified as 30450-0, originated from a cross made in a controlled breeding program in Chichester, West Sussex, United Kingdom. The female parent of the new variety is the unpatented variety known as 'Leyla.' The male parent of the new variety is the variety known as 'Pidoul' (U.S. Plant Patent No. 10,218).

The new variety 'Starlet White' has been asexually reproduced by vegetative cuttings in Chichester, West Sussex, United Kingdom and the distinguishing characteristics are retained through successive generations of asexual reproduction.

#### BRIEF SUMMARY OF THE INVENTION

'Starlet White' is a garden type of Chrysanthemum plant variety having a uniform domed and round shape carrying many small white single flowers.

#### Comparison with Female Parent

Plants of the new Chrysanthemum variety 'Starlet White' are similar to the female parent variety 'Leyla' in plant habitat and growth rate. In side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Starlet White' differed from plants of the parent 'Leyla' in the following characteristics.

1. The new variety 'Starlet White' produces white flowers whereas the parent 'Leyla' produces yellow flowers.
2. Plants of the new variety 'Starlet White' have smaller and shorter inflorescence than plants of the parent 'Leyla.'

### Comparison with Male Parent

Plants of the new Chrysanthemum variety 'Starlet White' are similar to the male parent cultivar 'Pidoul' in plant habit and growth rate. However, in side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Starlet White' differed from plants of the parent cultivar 'Pidoul' in the following characteristics.

1. The new variety 'Starlet White' has smaller white single flowers than the parent variety 'Pidoul.'
2. Plants of the new variety 'Starlet White' have less flowers than the parent variety 'Pidoul.'
3. Plants of the new variety 'Starlet White' are less vigorous than plants of the parent variety 'Pidoul.'

### Comparison with Other Varieties

Plants of the new Chrysanthemum variety 'Starlet White' are similar to the unpatented variety 'Tightrope' in plant habit and growth rate. However, in side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Starlet White' differed from plants of 'Tightrope' in the following characteristics.

1. The new variety 'Starlet White' has smaller white single flowers than the variety 'Tightrope.'
2. Plants of the new variety 'Starlet White' have more flowers than the variety 'Tightrope.'
3. Plants of the new variety 'Starlet White' are less vigorous than plants of the variety 'Tightrope.'

### BRIEF DESCRIPTION OF ILLUSTRATION

Typical specimens of the plant and flowers for the new Chrysanthemum variety 'Starlet White' are shown in the accompanying digital photograph. The colors shown are as true as possible within the usual limits of this kind of illustration. Figure 1 is a whole plant view of the new variety 'Starlet White' grown in a pot. The plant shown in the illustration is 63 days from the commencement of planting outdoors in mid-June.

## DETAILED BOTANICAL DESCRIPTION

The following description of the new Chrysanthemum variety 'Starlet White' is of plants grown outside, natural season, in Chichester, West Sussex, United Kingdom in the month of June. The cultivar has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in the environment such as temperature, length of day and light intensity, without any variance in genotype. The commercial classification of the new variety is a garden Chrysanthemum.

Plants of the new variety have been grown successfully under temperature conditions averaging about 50°F at night and about 65°F to 75°F during the day under natural light conditions. The plants were grown outdoors in mid-June in 4 liter pots using loamless compost. No growth retardants were used. To produce a commercial product the plants may be pinched once with the center bud removed. The typical container size for commercial growth is 4 liter. It has been observed that the shelf life of the new variety is about 25 days with a response time of about 9 weeks natural season. The new variety is suitable for growth in a temperature range of 50°F to 75°F.

The new variety may be produced as a pot plant. The following description is with respect to a plant produced as garden pot plant. In the description of this new Chrysanthemum variety, color values have been taken from the Royal Horticultural Society Colour Chart (R.H.S.C.C.).

20 Plant

Plant type: Pot

Habit: Domed - Round

Height: 45 cm

Width: 45 cm

25 Branching characteristics: Free Branching and Spreading

Length of Lateral Branches: 15-26 cm

Number of Breaks from Pinch: 9-11

Stem Color: near 137B

Response Time: 63 days natural season

30 Vigor: Medium – Medium/Short

Shelf Life: 25 days

Disease (Susceptibility/Resistance observed): None observed to date

Pest (Susceptibility/Resistance observed): None observed to date

Growth retardant type and treatment: No treatment necessary

5 The plants were grown for 9 weeks in natural season conditions.

Propagation:

*Type:* Vegetative Propagation via Stem Cuttings

*Time to rooting:* 12 days with soil temperatures of 70°F

*Rooting habit:* Fine and Fibrous

10 Foliage

Number of Leaves Per Lateral Branch: 10-12

Compound or single: Single

Arrangement of Leaves: Alternate

Shape of Leaf: Typically 5 lobed ovate

15 Size of Leaf: *Width* (cm): 2.5-3    *Length* (cm): 3-4.5

Leaf Apex: Acute

Base: Cordate

Attachment: Petioled

Aspect: Slightly Undulating

20 Margin: Palmately Lobed

Surface characteristics:    *Top:* Slightly Pubescent

*Bottom:* Slightly Pubescent

Petiole:    *Color:* near 138 B

*Length:* 1.5-2 cm

25 Venation: Net prominent mid vein at underside

*Color: upper side:* near 144B

*under side:* near 144B

Color: Mature Leaf, *upper side:* near 138A; *under side:* near 138B

Young Leaf, *upper side:* near 138A; *under side:* near 138B

#### Flower

- 5 Flower appearance: Matte  
 Flower type: Single  
 Flower form: Flat/Slightly Cupped  
 Flower shape: Round  
 Flowering habit: Cyme
- 10 Number of blossoms per branch: 11-20  
 Inflorescence form: Corymbose  
 Depth of fully expanded blossoms: 1 cm  
 Diameter of fully expanded blossoms: 3.5 cm
- Phyllaries: *Number:* 23-25  
 15 *Color:* near 137C  
*Length:* 5-8 mm  
*Width:* 1-2 mm  
*Texture/Appearance:* Shiny/Slightly Pubescent
- Pedicel: *Length:* terminal: 5 cm; lateral: 9 cm  
 20 *Color:* near 137C  
*Surface:* Pubescent  
*Habit:* Slightly Curving  
*Strength:* Medium
- Ray florets: *Form/Shape:* Straight  
 25 *Texture/Appearance:* Matte  
*Number per flower:* 48-50  
*Length:* 1.5-1.8 cm; *Width:* 4-5 mm  
*Apex:* Rounded  
*Base:* Tubular  
 30 *Margin:* Entire

Disc florets: *Form/Shape*: Cylindrical  
*Texture/Appearance*: Shiny  
*Number per flower*: 120-150  
*Length*: 7 mm; *Width*: 1 mm  
5 *Diameter of disc*: 1 cm

Fragrance: None

Flower Bud (at onset of color):

*Length*: 8 mm  
*Diameter*: 8 mm  
10 *Form/Shape*: Globular

General flower color:

1. Ray florets, *upper side*:  
*Immature*: near 158D  
*Mature*: near 155D  
15 *Older/Fading*: 155D
2. Ray florets, *under side*:  
*Immature*: near 158D  
*Mature*: near 155D  
*Older/Fading*: near 155D
- 20 3. Disc florets:  
*Immature*: near 17B  
*Mature*: near 22A  
*Older/Fading*: near 22A

4. Bud: 20C

25 Flower progression with age: Flowers develop a pale pink color with age and become slightly cupped.

## Reproductive Organs

Gynoecium present on Ray and Disc florets.

Ray florets per individual flower:

- 5                      *Pistil number:* 25-30 observed  
                          *Stigma color:* near 144D  
                          *Stigma shape:* Forked  
                          *Style color:* near 144D  
                          *Style length:* 1-2 mm

10      Disc florets per individual flower:

- Pistil number:* 120-150 observed  
                          *Stigma color:* near 144D  
                          *Stigma shape:* Forked  
                          *Style color:* near 144D  
 15                      *Style length:* 2 mm

Androecium present on Disc florets only.

- Stamen number:* 40-50 observed  
                          *Anther shape:* Ovoid  
                          *Anther color:* near 14C  
 20                      *Pollen color:* near 12A  
                          *Pollen quantity:* Medium

Fruit and Seeds: None observed